PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Artcle 36 and Rule 70)

Applicant's or agent's file reference PC04023-LG	FOR FURTHER ACTIO	N	See Form PCT/IPEA/416	
International application No. PCT/KR2004/002838	International filing date(day/). 04 NOVEMBER 2004		Priority date (day/month/yed 05 NOVEMBER 2003 (05	
International Patent Classification (IPC) IPC7 A01N 25/04				
Applicant LG LIFE SCIENCES LTD. 6				
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Date of submission of the demand 18 MAY 2005 (18.05.2005)		Date of completion	of this report BER 2005 (19.10.2005)	
Name and mailing address of the IPEA/KR Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140		Authorized officer JUNG, Jin W Telephone No. 82		ATIO OL

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/KR2004/002838

Box No	o. I Basis of the report	
	Vith regard to the language, this report is based on the international application in therwise indicated under this item. This report is based on translations from the original language into the followhich is the language of a translation furnished for the purposes of: international search (under Rules 12.3 and 23.1(b)) publication of the international application (under Rule 12.4) international preliminary examination (under Rules 55.2 and/or 55.3)	,
to th	ith regard to the elements of the international application, this report is based on the receiving Office in response to an invitation under Article 14 are referred to nexed to this report): The international application as originally filed/furnished	
	the description: pages pages* received by this Authoric received by th	·
	the claims: pages	as originally filed/furnished (together with any statment) under Article 19 y on
	the drawings: pages received by this Authorit pages* received by this Authorit the sequence listing and/or any related table(s) - see Supplemental Box Relatin	y on
3.	The amendments have resulted in the cancellation of: the description, pages the claims, Nos. the drawings, sheets the sequence listing (specify): any table(s) related to sequence listing (specify):	
4.	This report has been established as if (some of) the amendments annexed to the made, since they have been considered to go beyond the disclosure as filed, as (Rule 70.2(c)). the description, pages	s indicated in the Supplemental Box
* If iten	em 4 applies, some or all of those sheets may be marked "superseded."	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/KR2004/002838

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement			
Novelty (N)	Claims	1 - 25	YES
	Claims	None	NO
Inventive step (IS)	Claims	1 - 25	YES
	Claims	None	NO
Industrial applicability (IA)	Claims	1 - 25	YES
	Claims	None	NO

- 2. Citations and explanations (Rule 70.7)
 - 1. Reference is made to the following documents cited in the International Search Report:

D1: US 5,597,840 A D2: US 6,274,570 B1 D3: US 6,071,857 A D4: US 5,827,522 A

2. Novelty and Inventive Step

The present application claims a stable microemulsion composition comprising metalaxyl-M as an active ingredient, characterized in that the phase of the microemulsion is not destroyed by high concentration of Metalaxyl-M and the stability remains in a wide range of concentration even in the presence of water. The problem underlying the present application can be regarded as the provision of the metalaxyl-M microemulsion composition having less toxicity and longer stability, compared with the emulsion concentration composition using mixture of water-soluble and water-insoluble solvent or organic solvent only. The essential feature of the solution proposed by the present claims is the use of water and water-soluble solvent to dissolve the metalaxyl-M along with selected emulsifier(s).

See Supplemental Box for the next parts.

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of:

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D1 discloses the agrochemical microemulsion composition comprising an active ingredient such as Metalaxyl-M, a water-miscible solvent and an emulsifying agent. D1 does not teach the effect of emulsifying agents or aqueous solvent specified in the claims 1-25 in the presence of the active ingredient Metalaxyl-M for preparing the microemulsion composition. D2 and D3 describe the emulsion concentrated composition using a mixture of water-soluble and water-insoluble solvent to dissolve the active compound. It differs from the subject matter of claims 1-25 in that the water-insoluble solvent is applied to dissolve Metalaxyl-M. D4 relates to the preparation of microemulsion of active compounds consisting essentially of a solvating surfactant such as castor oil and rosin, which is not included in the subject matter of claims 1-25. Furthermore, Metalaxyl-M is not included as a preferred active ingredient in D4.

Thus, the subject matter of claims 1 to 25 is considered to be novel and involve an inventive step as set out in PCT Article 33(2) and 33(3).

3. Industrial Applicability

The subject matter of claims 1-25 meets the requirement for industrial applicability set out in PCT Article 33(4).